



	A Ala	R Arg	N Asn	D Asp	C Cys	Q Gln	E Glu	G Gly	H His	I Ile	L Leu	K Lys	M Met	F Phe	P Pro	S Ser	T Thr	W Trp	Y Tyr	V Val	
5'	GCA	CGA	AAC	GAC	UGC	CAA	GAA	GGA	CAC	AUA	CUA	AAA	AUG	UUC	CCA	UCA	ACA	UGG	UAC	GUA	3'
	C	C	U	U	U	G	G	C	U	C	C	G		U	C	C	C		U	C	
	G	G						G		U	G				G	G	G			G	
	U	U						U			U				U	U	U			U	
		or									or					or					
		AGA									UUA					AGC					
		G									G					U					

Second Position							
First Position (5' end)		U	C	A	G		Third Position (3' end)
	U	UUU Phe UUC UUA Leu UUG	UCU UCC Ser UCA UCG	UAU Tyr UAC UAA Stop UAG Stop	UGU Cys UGC UGA Stop UGG Trp	U C A G	
	C	CUU CUC Leu CUA CUG	CCU CCC Pro CCA CCG	CAU His CAC CAA Gln CAG	CGU CGC Arg CGA CGG	U C A G	
	A	AUU Ile AUC AUA Met AUG	ACU ACC Thr ACA ACG	AAU Asn AAC AAA Lys AAG	AGU Ser AGC AGA Arg AGG	U C A G	
	G	GUU Val GUC GUA GUG	GCU GCC Ala GCA GCG	GAU Asp GAC GAA Glu GAG	GGU GGC Gly GGA GGG	U C A G	

Termination Signals

UAA (Ochre)
UAG (Amber)
UGA (Opal)

Single Letter Code

A = adenosine	B = C or G or T
C = cytidine	D = A or G or T
G = guanosine	H = A or C or T
T = thymidine	K = G or T
	M = A or C
	N = A or C or G or T
	R = A or G
	S = C or G
	V = A or C or G
	W = A or T
	Y = C or T

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Document 1 of 5

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